

Bagh Ali

List of Publications by Year in descending order

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172207

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492
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite element investigation of Dufour and Soret impacts on MHD rotating flow of Oldroyd-B nanofluid over a stretching sheet with double diffusion Cattaneo Christov heat flux model. Powder Technology, 2021, 377, 439-452.	2.1	112
2	Melting effect on Cattaneo-Christov and thermal radiation features for aligned MHD nanofluid flow comprising microorganisms to leading edge: FEM approach. Computers and Mathematics With Applications, 2022, 109, 260-269.	1.4	105
3	Finite Element Simulation of Multi-Slip Effects on Unsteady MHD Bioconvective Micropolar Nanofluid Flow Over a Sheet with Solutal and Thermal Convective Boundary Conditions. Coatings, 2019, 9, 842.	1.2	99
4	Finite Element Analysis of Thermo-Diffusion and Multi-Slip Effects on MHD Unsteady Flow of Casson Nano-Fluid over a Shrinking/Stretching Sheet with Radiation and Heat Source. Applied Sciences (Switzerland), 2019, 9, 5217.	1.3	79
5	A comparative study of unsteady MHD Falkner-Skan wedge flow for non-Newtonian nanofluids considering thermal radiation and activation energy. Chinese Journal of Physics, 2022, 77, 1625-1638.	2.0	75
6	Finite Element Simulation of Multiple Slip Effects on MHD Unsteady Maxwell Nanofluid Flow over a Permeable Stretching Sheet with Radiation and Thermo-Diffusion in the Presence of Chemical Reaction. Processes, 2019, 7, 628.	1.3	72
7	Thermo-Diffusion and Multislip Effects on MHD Mixed Convection Unsteady Flow of Micropolar Nanofluid over a Shrinking/Stretching Sheet with Radiation in the Presence of Heat Source. Symmetry, 2020, 12, 49.	1.1	69
8	Bio-Convection Effects on Prandtl Hybrid Nanofluid Flow with Chemical Reaction and Motile Microorganism over a Stretching Sheet. Nanomaterials, 2022, 12, 2174.	1.9	68
9	Analysis of bio-convective MHD Blasius and Sakiadis flow with Cattaneo-Christov heat flux model and chemical reaction. Chinese Journal of Physics, 2022, 77, 1963-1975.	2.0	63
10	Analysis of Magnetic Properties of Nano-Particles Due to a Magnetic Dipole in Micropolar Fluid Flow over a Stretching Sheet. Coatings, 2020, 10, 170.	1.2	60
11	Multiple Slip Effects on Magnetohydrodynamic Axisymmetric Buoyant Nanofluid Flow above a Stretching Sheet with Radiation and Chemical Reaction. Symmetry, 2019, 11, 1171.	1.1	59
12	Multiple slip effects on MHD unsteady viscoelastic nano-fluid flow over a permeable stretching sheet with radiation using the finite element method. SN Applied Sciences, 2020, 2, 1.	1.5	56
13	A comparative description on time-dependent rotating magnetic transport of a water base liquid with hybrid nano-materials Al ₂ O ₃ with	2.0	55
14	Implication of Bio-convection and Cattaneo-Christov heat flux on Williamson Sutterby nanofluid transportation caused by a stretching surface with convective boundary. Chinese Journal of Physics, 2021, 73, 706-718.	2.0	52
15	Finite Element Study of Magnetohydrodynamics (MHD) and Activation Energy in Darcy-Forchheimer Rotating Flow of Casson Carreau Nanofluid. Processes, 2020, 8, 1185.	1.3	51
16	Finite element simulation of bioconvection and cattaneo-Christov effects on micropolar based nanofluid flow over a vertically stretching sheet. Chinese Journal of Physics, 2020, 68, 654-670.	2.0	49
17	MHD Williamson Nanofluid Flow over a Slender Elastic Sheet of Irregular Thickness in the Presence of Bioconvection. Nanomaterials, 2021, 11, 2297.	1.9	48
18	A Finite Element Simulation of the Active and Passive Controls of the MHD Effect on an Axisymmetric Nanofluid Flow with Thermo-Diffusion over a Radially Stretched Sheet. Processes, 2020, 8, 207.	1.3	47

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19	The function of nanoparticle's diameter and Darcy-Forchheimer flow over a cylinder with effect of magnetic field and thermal radiation. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101392.	2.8	46
20	Finite element analysis on transient MHD 3D rotating flow of Maxwell and tangent hyperbolic nanofluid past a bidirectional stretching sheet with Cattaneo-Christov heat flux model. <i>Thermal Science and Engineering Progress</i> , 2022, 28, 101089.	1.3	43
21	Significance of suction/injection, gravity modulation, thermal radiation, and magnetohydrodynamic on dynamics of micropolar fluid subject to an inclined sheet via finite element approach. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101537.	2.8	41
22	Finite Element Study for Magnetohydrodynamic (MHD) Tangent Hyperbolic Nanofluid Flow over a Faster/Slower Stretching Wedge with Activation Energy. <i>Mathematics</i> , 2021, 9, 25.	1.1	40
23	Impact of Stefan blowing on thermal radiation and Cattaneo-Christov characteristics for nanofluid flow containing microorganisms with ablation/accretion of leading edge: FEM approach. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	38
24	Insight into the dynamics of fluid conveying tiny particles over a rotating surface subject to Cattaneo-Christov heat transfer, Coriolis force, and Arrhenius activation energy. <i>Computers and Mathematics With Applications</i> , 2021, 93, 130-143.	1.4	38
25	Variable Viscosity Effects on Unsteady MHD an Axisymmetric Nanofluid Flow over a Stretching Surface with Thermo-Diffusion: FEM Approach. <i>Symmetry</i> , 2020, 12, 234.	1.1	37
26	Magnetic dipole and thermal radiation effects on hybrid base micropolar CNTs flow over a stretching sheet: Finite element method approach. <i>Results in Physics</i> , 2021, 25, 104145.	2.0	37
27	Analyzing the interaction of hybrid base liquid $C_2H_6O_2-H_2O$ with hybrid nano-material $Ag-MoS_2$ for unsteady rotational flow referred to an elongated surface using modified Buongiorno's model: FEM simulation. <i>Mathematics and Computers in Simulation</i> , 2021, 190, 57-74.	2.4	37
28	Bio-convection effects on Williamson nanofluid flow with exponential heat source and motile microorganism over a stretching sheet. <i>Chinese Journal of Physics</i> , 2022, 77, 2795-2810.	2.0	37
29	The Impact of Nanoparticles Due to Applied Magnetic Dipole in Micropolar Fluid Flow Using the Finite Element Method. <i>Symmetry</i> , 2020, 12, 520.	1.1	36
30	Magnetic Dipole and Thermal Radiation Impacts on Stagnation Point Flow of Micropolar Based Nanofluids over a Vertically Stretching Sheet: Finite Element Approach. <i>Processes</i> , 2021, 9, 1089.	1.3	36
31	Significance of Lorentz and Coriolis forces on dynamics of water based silver tiny particles via finite element simulation. <i>Ain Shams Engineering Journal</i> , 2022, 13, 101572.	3.5	36
32	Hybrid nanofluids: Significance of gravity modulation, heat source/ sink, and magnetohydrodynamic on dynamics of micropolar fluid over an inclined surface via finite element simulation. <i>Applied Mathematics and Computation</i> , 2022, 419, 126878.	1.4	36
33	Thermo-Diffusion and Multi-Slip Effect on an Axisymmetric Casson Flow over a Unsteady Radially Stretching Sheet in the Presence of Chemical Reaction. <i>Processes</i> , 2019, 7, 851.	1.3	35
34	Brownian motion and thermophoresis effects on bioconvection of rotating Maxwell nanofluid over a Riga plate with Arrhenius activation energy and Cattaneo-Christov heat flux theory. <i>Thermal Science and Engineering Progress</i> , 2021, 23, 100863.	1.3	35
35	Finite Element Analysis of Variable Viscosity Impact on MHD Flow and Heat Transfer of Nanofluid Using the Cattaneo-Christov Model. <i>Coatings</i> , 2020, 10, 395.	1.2	34
36	Unsteady magneto-hydrodynamic transport of rotating Maxwell nanofluid flow on a stretching sheet with Cattaneo-Christov double diffusion and activation energy. <i>Thermal Science and Engineering Progress</i> , 2020, 20, 100720.	1.3	33

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37	G-Jitter impact on magnetohydrodynamic non-Newtonian fluid over an inclined surface: Finite element simulation. Chinese Journal of Physics, 2021, 71, 479-491.	2.0	33
38	Significance of Brownian motion and thermophoresis influence on dynamics of Reiner-Rivlin fluid over a disk with non-Fourier heat flux theory and gyrotactic microorganisms: A Numerical approach. Physica Scripta, 2021, 96, 094001.	1.2	30
39	Finite element simulation of bioconvection Falkner-Skan flow of a Maxwell nanofluid fluid along with activation energy over a wedge. Physica Scripta, 2020, 95, 095214.	1.2	30
40	Implications of bioconvection and activation energy on Reiner-Rivlin nanofluid transportation over a disk in rotation with partial slip. Chinese Journal of Physics, 2021, 73, 672-683.	2.0	29
41	Significance of hybrid nanoparticles, Lorentz and Coriolis forces on the dynamics of water based flow. International Communications in Heat and Mass Transfer, 2022, 135, 106084.	2.9	29
42	Soret and Radiation Effects on Mixture of Ethylene Glycol-Water (50%-50%) Based Maxwell Nanofluid Flow in an Upright Channel. Complexity, 2021, 2021, 1-12.	0.9	28
43	Magnetic Rotating Flow of a Hybrid Nano-Materials Ag-MoS ₂ and Go-MoS ₂ in C ₂ H ₆ O ₂ -H ₂ O Hybrid Base Fluid over an Extending Surface Involving Activation Energy: FE Simulation. Mathematics, 2020, 8, 1730.	1.1	27
44	Finite element analysis of unsteady MHD Blasius and Sakiadis flow with radiation and thermal convection using Cattaneo-Christov heat flux model. Physica Scripta, 2021, 96, 125219.	1.2	25
45	Study on the novel suppression of heat transfer deterioration of supercritical water flowing in vertical tube through the suspension of alumina nanoparticles. International Communications in Heat and Mass Transfer, 2022, 132, 105893.	2.9	25
46	Significance of Dust Particles, Nanoparticles Radius, Coriolis and Lorentz Forces: The Case of Maxwell Dusty Fluid. Nanomaterials, 2022, 12, 1512.	1.9	25
47	Stefan Blowing Impacts on Unsteady MHD Flow of Nanofluid over a Stretching Sheet with Electric Field, Thermal Radiation and Activation Energy. Coatings, 2021, 11, 1048.	1.2	23
48	Impact of Bioconvection and Chemical Reaction on MHD Nanofluid Flow Due to Exponential Stretching Sheet. Symmetry, 2021, 13, 2334.	1.1	23
49	Numerical investigation for MHD Prandtl nanofluid transportation due to a moving wedge: Keller box approach. International Communications in Heat and Mass Transfer, 2022, 135, 106141.	2.9	23
50	Buoyancy Effects On Falkner-Skan Flow of a Maxwell Nanofluid Fluid With Activation Energy past a wedge: Finite Element Approach. Chinese Journal of Physics, 2020, 68, 368-380.	2.0	22
51	Finite Element Study of MHD Impacts on the Rotating Flow of Casson Nanofluid with the Double Diffusion Cattaneo-Christov Heat Flux Model. Mathematics, 2020, 8, 1555.	1.1	22
52	MHD Boundary Layer Flow and Heat Transfer of Nano fluid over a Vertical Stretching Sheet in the Presence of a Heat Source. Scientific Inquiry and Review, 2019, 3, 60-73.	0.1	22
53	Insight into significance of thermal stratification and radiation on dynamics of micropolar water based TiO ₂ nanoparticle via finite element simulation. Journal of Materials Research and Technology, 2022, 19, 4209-4219.	2.6	22
54	Magnetohydrodynamic mass and heat transport over a stretching sheet in a rotating nanofluid with binary chemical reaction, non-fourier heat flux, and swimming microorganisms. Case Studies in Thermal Engineering, 2021, 28, 101367.	2.8	21

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55	Bioconvection: Significance of mixed convection and mhd on dynamics of Casson nanofluid in the stagnation point of rotating sphere via finite element simulation. <i>Mathematics and Computers in Simulation</i> , 2022, 194, 254-268.	2.4	21
56	Numerical solution of 3D rotating nanofluid flow subject to Darcy-Forchheimer law, bio-convection and activation energy. <i>South African Journal of Chemical Engineering</i> , 2022, 40, 48-56.	1.2	21
57	Significance of Stephen blowing and Lorentz force on dynamics of Prandtl nanofluid via Keller box approach. <i>International Communications in Heat and Mass Transfer</i> , 2021, 128, 105599.	2.9	15
58	Numerical Study of MHD Natural Convection inside a Cubical Cavity Loaded with Copper-Water Nanofluid by Using a Non-Homogeneous Dynamic Mathematical Model. <i>Mathematics</i> , 2022, 10, 2072.	1.1	15
59	Computational Analysis for Bioconvection of Microorganisms in Prandtl Nanofluid Darcy-Forchheimer Flow across an Inclined Sheet. <i>Nanomaterials</i> , 2022, 12, 1791.	1.9	14
60	Tangent hyperbolic nanofluid: Significance of Lorentz and buoyancy forces on dynamics of bioconvection flow of rotating sphere via finite element simulation. <i>Chinese Journal of Physics</i> , 2022, 77, 658-671.	2.0	13
61	Attribution of Multi-slips and Bioconvection for Micropolar Nanofluids Transpiration Through Porous Medium over an Extending Sheet with PST and PHF Conditions. <i>International Journal of Applied and Computational Mathematics</i> , 2021, 7, 1.	0.9	12
62	Significance of bioconvection and mass transpiration for MHD micropolar Maxwell nanofluid flow over an extending sheet*. <i>Waves in Random and Complex Media</i> , 0, , 1-15.	1.6	12
63	Aligned Magnetic and Bioconvection Effects on Tangent Hyperbolic Nanofluid Flow Across Faster/Slower Stretching Wedge with Activation Energy: Finite Element Simulation. <i>International Journal of Applied and Computational Mathematics</i> , 2021, 7, 1.	0.9	10
64	Buoyancy Effect on MHD Slip Flow and Heat Transfer of a Nanofluid Flow Over a Vertical Porous Plate. <i>Scientific Inquiry and Review</i> , 2019, 4, 1-16.	0.1	10
65	MHD Natural Convection and Radiation over a Flame in a Partially Heated Semicircular Cavity Filled with a Nanofluid. <i>Mathematics</i> , 2022, 10, 1347.	1.1	10
66	Transient rotating nanofluid flow over a Riga plate with gyrotactic micro-organisms, binary chemical reaction and non-Fourier heat flux. <i>Chinese Journal of Physics</i> , 2021, 73, 732-745.	2.0	9
67	Computational analysis of rotating flow of hybrid nanofluid over a stretching surface. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2022, 236, 2570-2579.	1.4	6
68	Stratification and Buoyancy Effect of Heat Transportation in Magnetohydrodynamics Micropolar Fluid Flow Passing Over a Porous Shrinking Sheet Using the Finite Element Method. <i>Journal of Nanofluids</i> , 2019, 8, 1640-1647.	1.4	5
69	Boger nanofluid: significance of Coriolis and Lorentz forces on dynamics of rotating fluid subject to suction/injection via finite element simulation. <i>Scientific Reports</i> , 2022, 12, 1612.	1.6	5
70	A comparative note on the free convection of micropolar nanofluid due to the interaction of buoyancy and the dissipative heat energy. <i>Heat Transfer</i> , 2021, 50, 7020.	1.7	2
71	Significance of solar radiation and magnetic dipole impact on micropolar ferromagnetic fluid flow via an extending surface using finite element approach. <i>Heat Transfer</i> , 0, , .	1.7	2
72	Investigation of asymmetric wall temperature and concentration on free convection of conducting fluid in a microchannel. <i>Heat Transfer</i> , 2022, 51, 621-640.	1.7	1